CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE NORTH FORK FORKED DEER RIVER WATERSHED

4.1. BACKGROUND. This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 1998 303(d) list
iii. Description of nonpoint source contributions

The north Fork Forked Deer River Watershed (HUC 08010204) has been delineated into four HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 1.1 beta (developed by Tetra Tech, Inc for EPA Region 4) released in 2000.

WCS integrates with ArcView® v3.2 and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

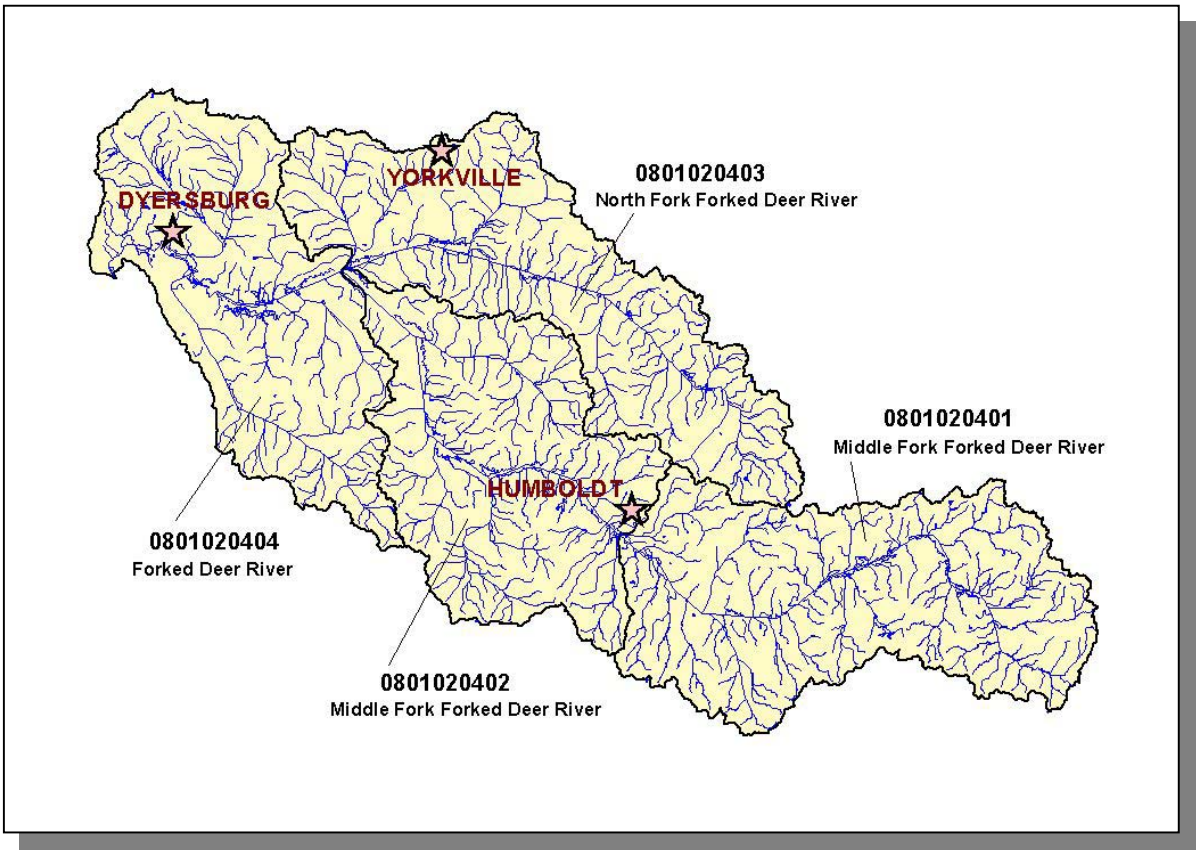

Figure 4-1. The North Fork Forked Deer River Watershed is Composed of Four USGS-Delineated Subwatersheds (10-Digit Subwatersheds). *Locations of Dyersburg, Humboldt, and Yorkville are shown for reference.*

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the North Fork Forked Deer River Watershed.

HUC-10	HUC-12
0801020401	080102040101 (Middle Fork Forked Deer River)
	080102040102 (Middle Fork Forked Deer River)
	080102040103 (Middle Fork Forked Deer River)
	080102040104 (Middle Fork Forked Deer River)
	080102040105 (Middle Fork Forked Deer River)
0801020402	080102040201 (Middle Fork Forked Deer River)
	080102040202 (Cypress Creek)
	080102040203 (Middle Fork Forked Deer River)
	080102040204 (Buck Creek)
0801020403	080102040301 (North Fork Forked Deer River)
	080102040302 (North Fork Forked Deer River)
	080102040303 (Cain Creek)
	080102040304 (Mud Creek)
	080102040305 (North Fork Forked Deer River)
	080102040306 (Doakville Creek)
0801020404	080102040401 (Forked Deer River)
	080102040402 (Forked Deer River)
	080102040403 (Pond Creek)
	080102040404 (Lewis Creek)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*